

Title (en)

CLOSED LOOP FEEDBACK CONTROL OF MOTOR VELOCITY OF A SURGICAL STAPLING AND CUTTING INSTRUMENT BASED ON MEASURED TIME OVER A SPECIFIED DISPLACEMENT DISTANCE

Title (de)

GESCHLOSSENE RÜCKKOPPLUNGSREGELUNG DER MOTORDREHZAHL EINES CHIRURGISCHEN KLAMMEROVORRICHTUNGS- UND SCHNEIDINSTRUMENTS BASIEREND AUF GEMESSENER ZEIT ÜBER EINE BESTIMMTE VERLAGERUNGSDISTANZ

Title (fr)

COMMANDE DE RÉTROACTION EN BOUCLE FERMÉE DE LA VITESSE DE MOTEUR D'UN INSTRUMENT D'AGRAFAGE ET DE COUPE CHIRURGICAL SUR LA BASE D'UN TEMPS MESURÉ SUR UNE DISTANCE DE DÉPLACEMENT SPÉCIFIÉE

Publication

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Application

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Priority

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Abstract (en)

A motorized surgical instrument is disclosed. The surgical instrument includes a displacement member, a motor coupled to the displacement member, a control circuit coupled to the motor, a position sensor coupled to the control circuit, and a timer circuit coupled to the control circuit. The control circuit is configured to receive, from the position sensor, a position of the displacement member in a current zone defined by a set displacement interval, measure time at a set position of the displacement interval, wherein the measured time is defined as the time taken by the displacement member to traverse the displacement interval, and set a command velocity of the displacement member for a subsequent zone based on the measured time in the current predefined zone.

IPC 8 full level

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Citation (applicant)

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